14	004/03/20 03:39 004/03/18 13:10 003/04/05 21:11 003/04/05 21:11 003/04/05 21:19 003/04/07 11:38 003/04/07 10:35
- (("6162558") or ("5958109") or ("5891217") or ("5876486") or ("5646305") or ("5632807") or ("5529763") or ("541559") or ("4917711") or ("4696682") or ("4587114") or ("34564816") or ("20020004157")).PN. - 3 (("3453418") or ("3846849") or ("3430418")).PN. 2 (("20020110504") or ("20020004157")).PN. - 151 (GITTLEMAN-CRAIG-S GITTLEMAN-CRAIG-SETH GITTLEMAN-C-S GUPTA-RAMESH-K GUPTA-RAMESH-C GUPTA-RAMESH-K GUPTA-RAMESH-C GUPTA-RAMESH-K GUPTA-RAMESH-C GUPTA-RAMESH-M PETTIT-WILLIAM-H PETTIT-W-E PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) - 2 (USPAT 20 USPAT 20 USPA	003/04/05 21:11 003/04/05 21:11 003/04/05 21:19 003/04/07 11:38
Cite	003/04/05 21:11
C"5441559") or ("4917711") or ("4696682") or ("4587114") or ("3564816") or ("20020004157")).PN. USPAT US	003/04/05 21:11
C	003/04/05 21:11
3	003/04/05 21:11
2 (("20020110504") or ("20020004157")).PN. 151 GITTLEMAN-CRAIG-S GITTLEMAN-CRAIG-SETH GITTLEMAN-C-S GUPTA-RAMESH GUPTA-RAMESH-C GUPTA-RAMESH-K GUPTA-RAMESH-KUMAR GUPTA-RAMESH-M PETTIT-WILLIAM-H PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-T PETTIT-W-E PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) - 2 "USPAT; USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT 20 USPAT USPAT 20	003/04/05 21:11
Legit Leman-Craig-s Gittleman-Craig-seth Gittleman-Craig-seth Gittleman-C-s Gupta-ramesh Gupta-ramesh-c Gupta-ramesh-k Gupta-r	003/04/05 21:19
GITTLEMAN-CRAIG-S GITTLEMAN-CRAIG-SETH GITTLEMAN-C-S GUPTA-RAMESH GUPTA-RAMESH-C GUPTA-RAMESH-K GUPTA-RAMESH-KUMAR GUPTA-RAMESH-M PETTIT-WILLIAM-H PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-T PETTIT-W-E PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT: USPAT USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB POTATS ON TOTAL STANDARD USPAT	003/04/07 11:38
GITTLEMAN-C-S GUPTA-RAMESH GUPTA-RAMESH-C GUPTA-RAMESH-K GUPTA-RAMESH-KUMAR GUPTA-RAMESH-M PETTIT-WILLIAM-H PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-H PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 20 (rotat\$5 and PSA) (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	003/04/07 11:38
GUPTA-RAMESH-K GUPTA-RAMESH-KUMAR GUPTA-RAMESH-M PETTIT-WILLIAM-E PETTIT-WILLIAM-H PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-T PETTIT-W-E PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT 20	
GUPTA-RAMESH-M PETTIT-WILLIAM-E PETTIT-WILLIAM-H PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-T PETTIT-W-E PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT 20 crotat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-T PETTIT-W-E PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 20 rotat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 20 (rotat\$5 and PSA) (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
VOECKS-GERALD-E VOECKS-G-E (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 20 10 votat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
- 39 (fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or (carbon adj oxide))) and (PSA or (pressure with swing)) - 2 "US 6103143" USPAT 20 USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT - 981 rotat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT USPAT 20 crotat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
- 2 (carbon adj oxide))) and (PSA or (pressure with swing)) "US 6103143" USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT 20 (rotat\$5 and PSA) (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	003/04/07 10:35
2 "US 6103143" USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 20 USPAT	003/04/07 10:35
US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 20 (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
EPO; JPO; DERWENT; IBM_TDB USPAT 20 (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
DERWENT; IBM_TDB USPAT 20 (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
- 981 rotat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide)) IBM_TDB USPAT 20 USPAT 20	
- 981 rotat\$5 and PSA (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj dioxide))	
- 209 (rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj USPAT 20 dioxide))	003/04/07 11:40
dioxide))	003/04/07 11:40
(dioxide))	JU3/U4/U/ 13.30
	000/04/07 44.44
140 ((lotateo alla 1 0/1) alla (00:00512 0) 002 0/ (00:00514 0)	003/04/07 11:41
dioxide))) and (hydrogen or h2 or "h.sub.2")	000/04/07 44 40
	003/04/07 11:48
dioxide))) and (hydrogen or h2 or "h.sub.2")) and (fuel adj cell)	
1 1 0 0 0 1000 / 14.	003/04/07 12:11
1 - 1 2 ((3323310) 0) (43171 11) /// (14	003/04/07 12:41
7 (("3789106") or ("4019879") or ("4470829") or ("4713090") or USPAT 20	003/04/07 12:51
("4587114") or ("4914076") or ("4917711")).PN.	
- 339 dessicant SAME ((molecular adj sieve) or (activated adj USPAT 20	003/04/07 12:55
alumina) or (silica adj gel))	
2101 desiccant SAME ((molecular adj sieve) or (activated adj USPAT 20	003/04/07 13:00
alumina) or (silica adj gel))	
- 968 (desiccant SAME ((molecular adj sieve) or (activated adj USPAT 20	003/04/07 13:33
alumina) or (silica adj gel))) and ((carbon adj monoxide) or co	500.0
alumina) or (slica adj gerj)) and ((carbon adj monoxide) or co	
or (carbon adj oxide)) 0 (isothermal\$3 WITH expander) and PSA USPAT 20	003/04/07 13:33
- (Isothermalips Willinexpander) and it on	003/04/07 13:34
o (loothormalyo vviii) expanayo, and con	
ZOT IOUIIOIIIIIII ONPAIIETO	003/04/07 13:34
10 injurctations and ((objects of section and)	003/04/07 13:39
WITH adsorb\$6)	000/04/07 40 51
	003/04/07 13:54
20 (16.3db,0 0.3db,4 With 01.3db,2 0.3db,0) and only	003/04/07 13:55
8 (("4917711") or ("4696682") or ("4587114") or ("5529763") or USPAT 20	003/08/21 16:11
("3453418") or ("3564816") or ("3846849") or ("5441559")).PN.	00
10 "WO 9928013" "EP 737648" "WO 200016425" "US 6051050" USPAT; 20	003/08/22 13:08
"US 6103143" US-PGPUB;	
EPO; JPO;	
DERWENT;	
IBM TDB	
· · · · · · · · · · · · · · · · · · ·	003/08/22 13:32
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1 (1011070).111.	003/08/22 13:32
	003/08/22 13:34
(0) ((0) (0) (0) (0) (0) (0) (0) (0) (0)	003/08/22 13:35
WITH adsorb\$6)	55 1/66 1/ 5 1 = 5 = 5
	004/03/17 12:53
1 120 (0)(1300 0) (0)(1 500) 5(0) 5(0)	004/03/18 13:36
synthesis-gas or SNG or (split adj gas) or ((hydrogen or H2 or	
"H.sub.2" or hydrogenous or dihydrogen) same (CO or (carbon	
adj monoxide) or (carbon adj oxide)))) and (shift or WGS) and	
(absorb\$4 or adsorb\$4)	

L Number	Hits	Search Text	DB	Time stamp
1	1	("6692545").PN.	USPAT	2004/03/20 03:39
_	14	(("6162558") or ("5958109") or ("5891217") or ("5876486") or	USPAT;	2004/03/18 13:10
		("5646305") or ("5632807") or ("5529970") or ("5529763") or	US-PGPUB	
		("5441559") or ("4917711") or ("4696682") or ("4587114") or		
		("3564816") or ("20020004157")).PN.		
	3	(("3453418") or ("3846849") or ("3430418")).PN.	USPAT	2003/04/05 21:11
-	2	(("20020110504") or ("20020004157")).PN.	USPAT:	2003/04/05 21:11
-		((20020110304) Of (20020004137)).FIX.	US-PGPUB	2000/0-1/00 21:11
	151	GITTLEMAN-CRAIG-S GITTLEMAN-CRAIG-SETH	USPAT;	2003/04/05 21:19
-	131	GITTLEMAN-C-S GUPTA-RAMESH GUPTA-RAMESH-C	US-PGPUB;	2000/04/00 21:10
		GUPTA-RAMESH-K GUPTA-RAMESH-KUMAR	EPO; JPO;	
		GUPTA-RAMESH-N GUPTA-RAMESH-ROMAN GUPTA-RAMESH-M PETTIT-WILLIAM-E PETTIT-WILLIAM-H	DERWENT;	
		PETTIT-WILLIAM-HENRY PETTIT-WILLIAM-T PETTIT-W-E	IBM_TDB	
			IDIVI_IDD	
		PETTIT-W-G PETTIT-W-H VOECKS-G VOECKS-GERALD		
		VOECKS-GERALD-E VOECKS-G-E	USPAT	2003/04/07 11:38
-	39	(fuel adj cell) and (shift SAME (CO or (carbon adj monoxide) or	USPAT	2003/04/07 11.36
	_	(carbon adj oxide))) and (PSA or (pressure with swing))	LICDAT	2002/04/07 40:25
-	2	"US 6103143"	USPAT;	2003/04/07 10:35
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	981	rotat\$5 and PSA	USPAT	2003/04/07 11:40
-	209	(rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj	USPAT	2003/04/07 13:38
		dioxide))		
-	145	((rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj	USPAT	2003/04/07 11:41
		dioxide))) and (hydrogen or h2 or "h.sub.2")		
-	4	(((rotat\$5 and PSA) and ("CO.sub.2" or co2 or (carbon adj	USPAT	2003/04/07 11:48
		dioxide))) and (hydrogen or h2 or "h.sub.2")) and (fuel adj cell)		
-	1	("6451095").PN.	USPAT	2003/04/07 12:11
-	2	(("5529970") or ("4917711")).PN.	USPAT	2003/04/07 12:41
_	7	(("3789106") or ("4019879") or ("4470829") or ("4713090") or	USPAT	2003/04/07 12:51
		("4587114") or ("4914076") or ("4917711")).PN.		
-	339	dessicant SAME ((molecular adj sieve) or (activated adj	USPAT	2003/04/07 12:55
		alumina) or (silica adj gel))		
-	2101	desiccant SAME ((molecular adj sieve) or (activated adj	USPAT	2003/04/07 13:00
		alumina) or (silica adj gel))		
-	968	(desiccant SAME ((molecular adj sieve) or (activated adj	USPAT	2003/04/07 13:33
		alumina) or (silica adj gel))) and ((carbon adj monoxide) or co		
		or (carbon adj oxide))		
-	0	(isothermal\$3 WITH expander) and PSA	USPAT	2003/04/07 13:33
-	0	(isothermal\$3 WITH expand\$3) and PSA	USPAT	2003/04/07 13:34
-	254	isothermal\$3 WITH expand\$3	USPAT	2003/04/07 13:34
-	15	hydrotalcite and (("CO.sub.2" or co2 or (carbon adj dioxide))	USPAT	2003/04/07 13:39
		WITH adsorb\$6)		
-	388	(iron WITH chromium with catalyst) and shift	USPAT	2003/04/07 13:54
-	26	("fe.sub.3 o.sub.4" with "cr.sub.2 o.sub.3") and shift	USPAT	2003/04/07 13:55
_	8	(("4917711") or ("4696682") or ("4587114") or ("5529763") or	USPAT	2003/08/21 16:11
		("3453418") or ("3564816") or ("3846849") or ("5441559")).PN.		
<u>-</u>	10	"WO 9928013" "EP 737648" "WO 200016425" "US 6051050"	USPAT;	2003/08/22 13:08
		"US 6103143"	US-PGPUB;	
		333133	EPO; JPO;	
			DERWENT:	
			IBM_TDB	*
<u>-</u>	1	("6451095").PN.	USPAT	2003/08/22 13:32
<u> </u>	1	("4914076").PN.	USPAT	2003/08/22 13:32
	314	(5A and 13X) WITH zeolite	USPAT	2003/08/22 13:34
	59	((5A and 13X) WITH zeolite) and ((CO or (carbon adj oxide))	USPAT	2003/08/22 13:35
-	39	WITH adsorb\$6)	301 A1	
<u>-</u>	1	"20020110504"	US-PGPUB	2004/03/17 12:53
<u> </u>	4259	(syngas or (syn adj gas) or syn-gas or (synthesis adj gas) or	USPAT	2004/03/18 13:36
	1200	synthesis-gas or SNG or (split adj gas) or ((hydrogen or H2 or	20.711	
		"H.sub.2" or hydrogenous or dihydrogen) same (CO or (carbon		
		adj monoxide) or (carbon adj oxide)))) and (shift or WGS) and		
		(absorb\$4 or adsorb\$4)		
		(מטפטוטשָּד טו מעפטוטשָד)		1